

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/765,202	01/28/2004	James P. Dunyak	MIT-0002 7630  EXAMINER		
23353	7590 07/03/2006				
	SHMAN & GRAUER P	ODOM, CURTIS B			
LION BUILDING 1233 20TH STREET N.W., SUITE 501 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER	
			2611		
			DATE MAILED: 07/03/2006	DATE MAILED: 07/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.



## Supplemental Notice of Allowability

Application No.	Applicant(s)		
10/765,202	DUNYAK ET AL.		
Examiner	Art Unit		
Curtis B. Odom	2634		

Notice of Allowability	Examiner	Art Unit	
	Curtis B. Odom	2634	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not includ will be mailed in due	ed course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>2/17/2006</u> .			
2. $igotimes$ The allowed claim(s) is/are <u>57-60,62-64,66-70,72-74,76 an</u>	<u>d 89-104</u> .		
3.	der 35 U.S.C. § 119(a)-(d) or (f).  been received.  been received in Application No cuments have been received in this a  of this communication to file a reply a  ENT of this application.  itted. Note the attached EXAMINER' as reason(s) why the oath or declara  at be submitted.  on's Patent Drawing Review (PTO-  s Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL in  sit of BIOLOGICAL MATERIAL in	national stage application of the front (not the d).  nust be submitted.	quirements NOTICE OF
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5.	atent Application (PT	O-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🛛 Interview Summary	(PTO-413),	-
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	Paper No./Mail Dat 18), 7. ⊠ Examiner's Amendr 8. ⊠ Examiner's Stateme	nent/Comment	owance .
Examiner's Comment Regarding Requirement for Deposit of Biological Material	9. Other	ent of Reasons for All	JWalice

Application/Control Number: 10/765,202

Art Unit: 2634

SUPPLEMENTAL EXAMINER'S AMENDMENT

Page 2

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

May 15, 2006 on Christopher Tobin.

The application has been amended as follows:

Claim 72 (Currently Amended) The apparatus of claim 67, wherein the interpolated

signature waveforms are used to update the symbol estimate for the given user at the current sub-

symbol interval and determine the interference contribution for individual ones of the plurality of

users in the next sub-symbol interval.

EXAMINER'S STATEMENTS FOR REASONS OF ALLOWANCE

2. Claims 57-60, 62-64, 66-70, 72-74, 76, and 89-104 are allowable over prior are

references because related references do not disclose interpolating signature waveforms for a

plurality of users, using the interpolated waveforms to calculate a symbol estimate at a current

sub-symbol interval by determining a current interference estimate for a current sub-symbol

Page 3

Art Unit: 2634

interval by combining interference contributions for the plurality of users corresponding to a previous sub-symbol interval, performing parallel interference cancellation for a given user signal, and updating the symbol estimate for a given user at a sub-symbol interval using the interference cancelled signal.

## Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Curtis B. Odom whose telephone number is 571-272-3046. The examiner can normally be reached on Monday- Friday, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Curtis Odom May 25, 2002

JAY K. PATEL
SUPERVISORY PATENT EXAMINER